

[illegible]

1. An interoperable receiver comprising:
first means for receiving signals in a first band;
second means for downconverting said received signals in the first band;
third means for receiving signals in a second band;
fourth means for downconverting signals in the second band; and
fifth means for selectively outputting signals from the first band or the second band.
2. The invention of Claim 1 wherein said first band includes multiple carriers.
3. The invention of Claim 1 wherein said second band includes multiple carriers.
4. The invention of Claim 1 wherein the first band is the XM band.
5. The invention of Claim 1 wherein the second band is the CD band.
6. The invention of Claim 1 wherein the first and the third means is a radio frequency antenna.
7. The invention of Claim 6 wherein the output of the antenna is input to a filter.
8. The invention of Claim 7 wherein the filter is an image filter.

9. The invention of Claim 7 wherein the filter is a selectivity filter.

10. The invention of Claim 6 wherein the second means and the fourth means is a mixer.

11. The invention of Claim 10 wherein the mixer is driven by a voltage controlled oscillator.

12. The invention of Claim 11 wherein the voltage controlled oscillator is driven by a synthesizer.

13. The invention of Claim 12 wherein the fifth means includes a controller.

14. The invention of Claim 13 wherein the synthesizer is controlled by the controller to cause said receiver to selectively output signals received in the XM band or the CD band.

15. The invention of Claim 13 further including means for digitizing the output of the mixer.

16. The invention of Claim 15 further including means for simultaneously receiving first and second ensembles, said first ensemble including a first signal from a first source, a first signal from a second source and a first signal from a third source and said second ensemble including a second signal from said first source, a second signal from said second source and a second signal from said third source.

17. The invention of Claim 16 further including means for selectively outputting signals transmitted within said first and said second ensembles.

18. The invention of Claim 15 further including means for outputting an audio signal along with a data signal.

19. The invention of Claim 1 further including means for outputting an audio signal along with a data signal.

20. An interoperable receiver comprising:

first means for receiving signals in an XM band;

second means for downconverting said received signals in the XM band;

third means for receiving signals in a CD band;

5 fourth means for downconverting signals in the CD band; and

control means for selectively outputting signals from the XM band or the CD band.

21. The invention of Claim 20 further including means for simultaneously receiving first and second ensembles, said first ensemble including a first signal from a first source, a first signal from a second source and a first signal from a third source and said second ensemble including a second signal from said first source, a second signal
5 from said second source and a second signal from said third source.

22. The invention of Claim 21 further including means for selectively outputting signals transmitted within said first and said second ensembles.

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24. The invention of Claim 20 further including means for outputting an audio signal along with a data signal.

~~radio receiver
receiving an
or receiving
selectively~~

first means for receiving an audio datastream;

second means for receiving a data datastream; and

third means for selectively outputting said audio and said data bitstreams.